

AMENDMENTS TO THE CLAIMS

Listing of Claims in the case:

The following listing of claims replaces all previous versions.

1. (Cancelled)
2. (Currently Amended) The method of Claim ~~[[1]]~~ 3 wherein said step b) comprises the step of:

b1) ~~[[an]]~~ said adapter program converting a data structure specified by said PERL request into a form which is substantially compliant with said client stub ~~a communication program~~.

3. (Currently Amended) ~~The method of Claim 2 wherein said communication program comprises a~~
A method for allowing a single process executing in a processor and comprising a Practical Extraction Report Language (PERL) program to directly access a distributed object via a Common Object Request Broker Architecture (CORBA), comprising:

a) accessing a request from a PERL program code specifying said distributed object;

b) an adapter program code of said process translating said request to a format that is substantially compliant with a client stub program of the process;

c) said client stub program code making a call to access said distributed object via a CORBA;
d) said client stub program code receiving a response from said call;
e) translating said response to a form which is substantially compliant with a Practical Extraction Report Language; and
f) passing said translated response to said PERL program code,
wherein said single process comprising the PERL program code directly accesses said distributed object.

4. (Currently Amended) The method of Claim 1 wherein said step b) comprises the step of:

b1) an adapter program converting said PERL request into a request which is substantially compliant with said client stub used to access the Common Object Request Broker Architecture (CORBA) object format.

5. (Original) The method of Claim 4 wherein said adapter program is written in a first programming language and said PERL application is written in second programming language, said first and said second programming languages being different.

6. (Original) The method of Claim 4 wherein said adapter program is substantially compliant with the C programming language.

7. (Currently Amended) The method of Claim [[1]] 3 wherein said PERL program is located on a first computer system and said distributed object is located on a second computer system.

8. (Currently Amended) The method of Claim [[1]] 3 wherein said step e) comprises the step of:

e1) an adapter program converting a data structure into a form which is substantially compliant with the Practical Extraction Report Language.

9. (Currently Amended) The method of Claim [[1]] 3 wherein said step e) comprises the step of:

e1) for a plurality of objects described in an Interface Definition Language (IDL), providing a corresponding plurality of translations in an adapter program, wherein said adapter program translates between a communication program and said PERL program.

10. (Currently Amended) The method of Claim [[1]] 3 further comprising the step of:

g) said PERL program accessing user information over a number of databases by connecting to a server via said CORBA.

11. (Currently Amended) A computer readable medium having stored thereon program instructions for allowing a Practical Extraction Report

Language (PERL) program to communicate with a distributed object via Common Object Request Broker Architecture (CORBA), said instructions carrying out a method comprising the steps of:

a) ~~receiving~~ accessing a request from said PERL program, said request specifying said distributed object;

b) an adapter program bundled with said PERL program translating said request from said PERL program to a format which is substantially compliant with a client stub program bundled with said PERL program code ~~suitable for use with a Common Object Request Broker Architecture (CORBA);~~

c) said client stub program making a call to access said distributed object via the a Common Object Request Broker Architecture (CORBA);

d) receiving a response from said call in said step c);

e) translating said response to a form which is substantially compliant with the Practical Extraction Report Language; and

f) passing said translated response from said step e) to said PERL program.

12. (Cancelled)

13. (Currently Amended) The computer readable medium of Claim 11 ~~having further stored therein said PERL program; and~~

wherein said distributed object is located on a remote computer system.

14. (Cancelled)

15. (Currently Amended) The computer readable medium of Claim [[14]]
11 wherein said step b) of said method comprises the step of:

b1) converting a data structure into a form which is substantially compliant with the data structures of said client stub.

16. (Cancelled)

17. (Original) The computer readable medium of Claim 11 wherein said step e) of said method comprises the step of:

e1) converting a data structure into a form which is substantially compliant with the Practical Extraction Report Language.

18. (Original) The computer readable medium of Claim 11 wherein said step e) of said method comprises the step of:

e1) for a plurality of objects described in an Interface Definition Language (IDL), providing a corresponding plurality of translations.

19. (Currently Amended) The computer readable medium of Claim 11 wherein ~~said program comprises~~ further comprising generating a module generated from said PERL program by a Practical Extraction Report Language External Subroutine (PERL-XS).

20. (Currently Amended) In a computer system, means for providing communication between a Practical Extraction Report Language (PERL) program and a distributed object comprising:

means for accessing a request from a PERL program code specifying said distributed object;

means bundled with said PERL program and for accessing said distributed object via a CORBA;

[[a]] means bundled with said PERL program and for translating a call from said PERL program to a format substantially compliant with said mean for accessing said distributed object via a Common Object Request Broker Architecture (CORBA); and

[[b]] means for translating a response from said call to a format substantially compliant with the Practical Extraction Report Language and for passing said translated response to said PERL program code, wherein said PERL program code directly accesses said distributed object.

21. (Cancelled)

22. (Currently Amended) The means for providing communication of Claim 20 wherein said means for translating said call from said PERL program comprises:

means for converting a data structure into a form which is substantially compliant with said mean for accessing said distributed object ~~a program which accesses said distributed object via said Common Object Request Broker Architecture (CORBA).~~

23. (Cancelled)

24. (Currently Amended) The method of Claim ~~[[1]]~~ 3, ~~further comprising an~~ wherein said adapter program ~~that~~ performs memory management of input and output parameters ~~of the PERL program.~~

25. (Currently Amended) The method of Claim 24, wherein the input and output parameters of the PERL program are related to subroutines of the ~~PERL~~ adapter program that are enabled to communicate to CORBA objects.

26. (Currently Amended) The method of Claim ~~[[1]]~~, ~~further comprising an~~ wherein the adapter program ~~handling~~ handles an exception that relates to said PERL program.

27. (Previously Presented) The method of Claim 25, further comprising said adaptor program notifying said PERL program of said exception.

28. (Cancelled)

29. (New) The method of Claim 24, wherein said output parameters are related to said PERL program code.

30. (New) The method of Claim 24, wherein said input and output parameters are related to said client stub program.

31. (New) A computer system comprising a processor coupled to a computer readable medium, said computer readable medium having stored thereon program instructions for allowing a Practical Extraction Report Language (PERL) program to communicate with a distributed object via Common Object Request Broker Architecture (CORBA), said instructions comprising:

a PERL application program;

a client stub generated from a standard CORBA implementation and able to access said distributed object via CORBA; and

an adaptor module that is able to translate a request from said PERL application program for use by said client stub;

wherein said PERL application program, said client stub, and said adaptor module execute in a single process on said processor, and wherein said process is able to directly access said distributed object.

32. (New) The computer readable medium of Claim 31, wherein said single process further comprises a PERL XS generated adapter code providing mappings from a PERL programming language to a C programming language.

33. (New) The computer readable medium of Claim 32, wherein said adaptor module is written in a C programming language.

34. (New) The computer readable medium of Claim 32, wherein said client stub is written in a C programming language.

35. (New) The method of Claim 2, wherein said adapter program converting the data structure comprises said adapter program manipulating input and output array references in said request.

36. (New) The method of Claim 2, wherein said adapter program converting the data structure comprises said adapter program converting data structures to be substantially compliant with a C programming language.

37. (New) The method of Claim 3, wherein said b) comprises converting a requested field list into a CORBA equivalent list.